~~SECRET~~

(When Filled In)

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY	BUDGET EST. AMOUNT	REPORTING PERIOD
OC-E			1-30 April 1959

ACTION

FUTURE		ACTIVE		X COMPLETED		CANCELLED		SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RESPONSIBILITY	PROJECT ENGINEER
E-5010	I	EES	[redacted]

25X

PROJECT TITLE

Receiving Antenna Multicoupler

PROJECT REQUIREMENT

To provide for OC requirements the best possible receiving antenna multicoupler.

PROJECT DESCRIPTION

To monitor the commercial and military developments in the field to determine if any of these multicouplers provided sufficient improvement to warrant replacing those now used in OC requirements.

APPROVAL DATE	APPROVED BY	STARTING DATE	COMPLETION DATE
1 March 1956	WAB / JJK	1 June 1956	April 1959

REMARKS

During this reporting period, the [redacted] KM-1 (CU 565 ( )/U) has been added to the Office of Communications Equipment Standards list, and procurement has been initiated. These units will cost $1250 each and delivery is expected to begin in December of 1959. With this action, project E-5010 is completed.

25X

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~~SECRET~~ (When Filled In)

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY	BUDGET EST. AMOUNT	REPORTING PERIOD
OC-E			1 April - 30 April 1959

ACTION

FUTURE	X ACTIVE	COMPLETED	CANCELLED	SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RESPONSIBILITY	PROJECT ENGINEER
E-5020	I	FES	[redacted]

25X1A

PROJECT TITLE

Modification Work Orders

PROJECT REQUIREMENT

To notify all field stations of standard modifications to equipment.

PROJECT DESCRIPTION

Reproduce necessary copies, assemble and prepare cover letters for all Modification Work Orders. Obtain approval and coordination. Determine category of distribution and forward to appropriate areas.

APPROVAL DATE	APPROVED BY	STARTING DATE	COMPLETION DATE
	AJW /s/ JJK /s/	8 February 55	

REMARKS

MWO #29 "Tiny Tot Diplex Transmitter/Distributor and Associated Teletypewriter Equipment Conversion from Model "B" to Model "C", Mark II" has been prepared and is being composed for approval and publication.

MWO #30 "Modification of Tuning Units TU-55 and TU-56 for Improving the Performance of the HT-4 Transmitter When Operating within the 18-30 mcs. Extended Frequency Range," will be completed when stock numbers for required components are known.

MWO #5 "Installation of R-C Filter Network in P7715-A Adapter Plug for External Keying on each Audio Frequency Carrier Transmitter." A component error was corrected and all areas notified.

FORM 10-58 1543

~~SECRET~~

(20-42)

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY. AMOUNT	REPORTING PERIOD
OC-E/OC-O+T		1-30 April 1959

☐ FUTURE ☒ ACTIVE ☐ COMPLETED ☐ CANCELLED ☐ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RSPN.	PROJECT ENGINEER
E-5021	II	EES	[redacted]

PROJECT TITLE
DF Development and Replacement Program

PROJECT REQUIREMENT
To provide standard DF equipments of the following types to meet Agency requirements: (a) Semi-Fixed HF, DF. (b) Portable HF, DF. (c) Portable VHF, DF. (d) Close range, body type HF, DF.

PROJECT DESCRIPTION
Investigate military,FCC, and commercial developments in the field of DF. Compile a report on the latest development, including cost, availability and specification and recommend equipments for standardization. Should the investigation be unfruitful, prepare specifications for the development and manufacture of equipments to meet Communications requirements.

APPROVAL DATE	APPROVED	STARTING DATE	COMPLETION DATE
March 1957	/WAB/ /JJK/	March 1957	

The NSA AN/TRD-15 installation at [redacted] is scheduled for completion in early May. Arrangements have been made with NSA to visit the installation on 15 May for an operational demonstration.

25X1A

25X1A

(When Filled In)

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY	BUDGET EST. AMOUNT	REPORTING PERIOD
OC-E			1 April - 30 April 1959

ACTION

FUTURE	ACTIVE	COMPLETED	CANCELLED	SUSPENDED
	X			

PROJECT NUMBER	PRIORITY CLASS	PRIM. RESPONSIBILITY	PROJECT ENGINEER
E-5037	II	FES	[redacted]

25X1

PROJECT TITLE

Technical Bulletins

PROJECT REQUIREMENT

To keep the field supplied with current technical information pertinent to general operation.

PROJECT DESCRIPTION

Scan technical literature to determine and select items for field distribution, determine distribution category, reproduce required number of copies, prepare cover letter, arrange approval and coordination, and forward to appropriate areas.

APPROVAL DATE	APPROVED BY	STARTING DATE	COMPLETION DATE
	AJW /s/ JJK /s/	2 February '56	

REMARKS

Field Handbook Numbers were assigned to all Technical Bulletins and this information was forwarded to all Areas and Divisions.

The following Technical Bulletins have been published and distribution to all required recipients has been completed:

TB #25 - "Performance and Design of Sloping Vee Antennas"

TB #28 - "Field Alignment of Collins 51-J Receiver using 100 kc. Oscillator as a Signal Generator"

Technical Bulletin #27, "Extending Electron Tube Life with Tube Shields" will be published when manufacturer's details (now on request) are received.

FORM 10-58 1543

(20-42)

~~SECRET~~

(When Filled In)

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY	BUDGET EST. AMOUNT	REPORTING PERIOD
OC-E			1-30 April 1959

ACTION

FUTURE	X ACTIVE	COMPLETED	CANCELLED	SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RESPONSIBILITY	PROJECT ENGINEER
E-5041	I	EES	[redacted]

25X1

PROJECT TITLE

RT-4 Transmitter Repackaging

PROJECT REQUIREMENT

Improve the reliability and operation features of the RT-4 Transmitter and package it with a Portable Master Oscillator in a rack for base station use.

PROJECT DESCRIPTION

The RT-4 Transmitter was originally made for small station intermittent use. Operational use has revealed some technical discrepancies and the transmitter has been placed "on the shelf." This project will be to correct these discrepancies and to mount the transmitter and PMO in the 48 inch rack for base station use. The task of redesign will be given to a consulting firm. A second firm will be given the task of compiling test data on a number of RT-4 Transmitters currently undergoing blower modification. This data will then be given to the first consulting firm.

APPROVAL DATE	APPROVED BY	STARTING DATE	COMPLETION DATE
28 February 1956	/WAB/ JJK/	1 March 1956	

REMARKS

A review of the evaluation reports which have been received indicates that the repackaged transmitter has met with general acceptance, the consensus of opinion being that the RT-4A seems to have corrected all of the serious faults and most of the minor problems found in the original (RT-4). Ease of operation, "built-in" PMO, frequency stability, and expressed preference for the RT-4A over the HT-4 are typical of the favorable comments. Adverse comment included such minor items as location of the test key, time delay feature in series with door interlocks, and errors in the instruction manual.

In order to determine a basis for proceeding effectively on this project, a memorandum has been sent to the Telecommunications, Training, and Techniques Staff of OC requesting guidance as to present and future requirements for the RT-4A.

FORM 10-58 1543

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. / ACTUAL	REPORTING PERIOD
		1-30 April 1959

☐ FUTURE ☒ ACTIVE ☐ COMPLETED ☐ CANCELLED ☐ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RSPN.	PROJECT ENGINEER
E-5053	I	EES	[redacted]

25X

PROJECT TITLE

URT-11 Power Supply Arcing

PROJECT REQUIREMENT

The filament winding of a high voltage transformer and the filter choke are arcing at the feed-through bushings. This project is to determine the cause of and corrective measures for this problem.

PROJECT DESCRIPTION

Preliminary investigation has indicated this arcing-over is not caused by insufficient voltage ratings of the components. It may be caused by a resonance. The problem will be turned over to a consulting firm for investigation and recommendations. Corrective measures for eliminating this problem will be distributed as a Modification Work Order.

APPROVAL DATE	APPROVED	STARTING DATE	COMPLETION DATE
15 September 1955	WAB /s/ JJK /s/	20 September 1955	

The first relay selected for switching of the transient eliminating exhibited a tendency to vary in pull-in time. Under some conditions the pull-in time was so quick that the swamping resistors were removed prior to the formation of the high voltage switching transcient, thereby negating the effect of the swamping circuit. A replacement relay with the proper pull-in time characteristics has been ordered and will be given a series of life tests during the next reporting period.

SECRET
(When Filled In)

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY	BUDGET EST. AMOUNT	REPORTING PERIOD
OC-P			1 - 30 April 1959

ACTION

FUTURE	X ACTIVE	COMPLETED	CANCELLED	SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RESPONSIBILITY	PROJECT ENGINEER
E-5060	I	SDS	[redacted]

25X

PROJECT TITLE

Strategic Reserve Program

PROJECT REQUIREMENT

To provide readily available transportable type package radio stations at convenient locations throughout the world for immediate installation and operational use in the event of an emergency.

PROJECT DESCRIPTION

To provide bills of materials for 2, 5, 10, 13, 15, and 20 position transportable type package radio stations with suggested floor plan layouts and standard wiring diagrams to provide efficient equipment utilization.

APPROVAL DATE	APPROVED BY	STARTING DATE	COMPLETION DATE
Sept. 53	WAB /s/ JJK /s/	September 53	

REMARKS

A memo from OC-P was received requesting OC-E to investigate the availability, cost, and procurement lead time of prefabricated shelters suitable for use with the packaged positions.

This information was compiled and forwarded.

The priority of other projects has prevented further work on other phases of the project.

FORM 10-58 1543

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY. AMOUNT	REPORTING PERIOD
OC-S		1 - 30 April 1959

☐ FUTURE ☒ ACTIVE ☐ COMPLETED ☐ CANCELLED ☐ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RSPN.	PROJECT ENGINEER
E-5071	I	SDS	[redacted]

25X1A

PROJECT TITLE

Tiny-Tot Electro-Magnetic Radiation Reduction

PROJECT REQUIREMENT

Reduction of the radio-magnetic radiation to a maximum of 3 feet.

PROJECT DESCRIPTION

The present Tiny-Tot has detectable compromising electro-magnetic radiation up to 15 feet from the unit. Determine the radiation reduction by: shielding the magnets; reductions of magnet current; use of dummy magnets wired in opposition to the normal field; and use of external masking elector-magnetic field. Radiation recordings to be made on an oscilliscope for comparative reduction by individual and combinations of methods.

APPROVAL DATE	APPROVED	STARTING DATE	COMPLETION DATE
29 October 1956	/WAB/ /JJK/	29 October 1956	

The final multilith copies of MWO #29 are in the stage of final reading and approval. One photograph, yet to be added to complete the manual, will be taken Friday, 1 May.

Final printed copies of MWO #29 will be ready for distribution to the field during the May reporting Period.

~~SECRET~~

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY. AMOUNT	REPORTING PERIOD
OC-O&T (AAB)		1 - 30 April 1959

☐ FUTURE ☒ ACTIVE ☐ COMPLETED ☐ CANCELLED ☐ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RSPN.	PROJECT ENGINEER
E-5078	1	SDS	[redacted]

25X1A9

PROJECT TITLE

25X1A6b Revised [redacted] /Transmitter/Receiver Antenna Systems.

PROJECT REQUIREMENT

Present rhombic antennas are inadequate for present frequency assignments and the antenna systems must be revised for the present communication paths.

PROJECT DESCRIPTION

Design a rhombic antenna system with suitable directional characteristics for frequencies up to 25 Mc.

APPROVAL DATE	APPROVED	STARTING DATE	COMPLETION DATE
October 1956	[redacted]	October 1956	

25X1A9a

A memorandum was received from OC-AD setting forth the requirements for a revision of the antenna fields at [redacted]. A working committee of interested parties from OC-E and OC-O will be organized to undertake a review and staff study of the present situation at [redacted]. This project will consequently be reactivated.

25X1A6

25X1A6

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MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY, AMOUNT	REPORTING PERIOD
OC-E		1 - 30 April 1959

☐ FUTURE ☒ ACTIVE ☐ COMPLETED ☐ CANCELLED ☐ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RSPN.	PROJECT ENGINEER
E-5085	I	SDS	[redacted]

25X1A

PROJECT TITLE

Communications Systems Planning for New Headquarters Building

PROJECT REQUIREMENT

To determine the types of Communications systems, and thequantities of equipment that will be required for installation in the new Headquarters Building to meet Agency communications requirements.

PROJECT DESCRIPTION

To investigate and compile information on new communications systems and equipment. To meet regularly with representatives of the Message Center Staff, Operations, Engineering, snd Security Divisions, and the OC member of the New Building Planning Staff to discuss communications requirements for the new building. To prepare a list of the equipment that will be required and suggested floor plans and equipment layouts defining spare requirements.

APPROVAL DATE	APPROVED	STARTING DATE	COMPLETION DATE
January 1957	WAB /s/ JJK /s/	January 1957	

A memorandum was received from OC-T setting forth a requirement for a microwave link between the CIA Building at Langley, Virginia, and the [redacted] Building, Washington, D. C. A study, including path profiles, will be made to determine the most feasible system to satisfy the requirements.

25X1A6a

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MONTHLY PROJECT REPORT

25X1A6b

ORIGINATOR(S)	BUDGET EST. FY. AMOUNT	REPORTING PERIOD
[redacted], OC-O&T		1-30 April 1959

☐ FUTURE ☒ ACTIVE ☐ COMPLETED ☐ CANCELLED ☐ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RSPN.	PROJECT ENGINEER
E-5089	I	EES	[redacted]

25X1

PROJECT TITLE

Selective Calling Systems

PROJECT REQUIREMENT

To determine what type, if any, selective calling system can be adapted for use in our overseas installations in order that stations may be alerted during unattended watch periods of emergency situations.

PROJECT DESCRIPTION

To investigate and compile a listing of all types of selective calling systems with such information as purpose, operational, technical, and physical characteristics, and cost.

To select by operational and technical evaluations, if necessary, and recommend one of these systems be adopted.

If approved, to implement procurement and installation.

APPROVAL DATE	APPROVED	STARTING DATE	COMPLETION DATE
December 1956	WAB /s/ JJK /s/	January 1957	

During this reporting period, it was decided that all immediate base to sub-base selective calling requirements would be filled with Motorola Selcal Equipment. This decision was based upon the following:

A) Commercially available system
B) Short delivery time, 5 to 6 weeks
C) Operationally proven, FAA Approved.
D) Competitive price, $550 per encoder, $325 per decoder.

Investigation of an A-1 calling system has been suspended pending further OC-T investigation of the need for such a system.

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY. AMOUNT	REPORTING PERIOD
OC-E/OC-O+T		1-30 April 1959

☐ FUTURE ☒ ACTIVE ☐ COMPLETED ☐ CANCELLED ☐ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RSPN.	PROJECT ENGINEER
E-5102	I	EES	[redacted] 25X1A9a

PROJECT TITLE
Voice Link for 6-ST

PROJECT REQUIREMENT
Provide a voice link between the transmitter and receiver vans based on suggestions from operation [redacted] 25X1A2d1

PROJECT DESCRIPTION
Design and install in the two 6-ST units currently at the [redacted] ware- 25X1A6a house a voice link capable of providing communication between the transmitter and receiver vans. The link should have the following capabilities:

a. Power output and range approximately the MUX link.
b. Be portable or work in conjunction with an extra portable unit.
c. Work into the present MUX antenna system or provide a separate antenna system.

Once the above is accomplished, a modification work order will be published for the rework of the remaining 6-ST's.

APPROVAL DATE	APPROVED	STARTING DATE	COMPLETION DATE
May 1957	~~/WAB/~~ ~~/LJK/~~	May 1957	

An interstage low pass filter, with cut-off at 1,000 cps (UTC Model LMI-1000) has been requisitioned for installation in the VHF MUX Audio Circuit to prevent abrupt changes in signal level from appearing at the modulator as high audio frequency signals. Procurement of the item will require from 30 to 60 days, due to the fact that it is not a stock item and must be obtained from a commercial source.

SECRET

(When Filled In)

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY	BUDGET EST. AMOUNT	REPORTING PERIOD
OC-E			1 - 30 April 1959

ACTION

FUTURE	X ACTIVE	COMPLETED	CANCELLED	SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RESPONSIBILITY	
E-5103	I	SDS	[redacted]

25X1A

PROJECT TITLE

Multiplex System for Base Station to Sub-Base Stations Communications

PROJECT REQUIREMENT

To provide a system of communications for base to sub-base operation to meet expanding communication commitments without extensive plant expansion.

PROJECT DESCRIPTION

Investigate and compile a report on the practicability of utilizing multiplex equipment on staff circuits, formulate systems where utilization is practical and make comparison costs with systems currently in use where expansion is contemplated or in areas where expanding communication commitments to staff circuits could justify multiplex communications.

APPROVAL DATE	APPROVED BY	START DATE	COMPLETION DATE
May 1957	AW /s/ SS /s/	May 1957	

REMARKS

An investigation will be made into single sideband multiplex systems which are currently available for utilization on the communications high frequencies. This project will be reported upon during the next reporting period.

FORM 1543

~~SECRET~~

(When Filled In)

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST.		REPORTING PERIOD
OC-E	FY 58	AMOUNT $5,000	1-30 April 1959

ACTION

FUTURE		X ACTIVE		COMPLETED		CANCELLED		SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RESPONSIBILITY	PROJECT ENGINEER
E-5105	I	EES	[redacted]

25X1

PROJECT TITLE

HT-4 Exciter Modification

PROJECT REQUIREMENT

Some of the HT-4 transmitters do not have sufficient output from the exciter between 18 and 30 megacycles to drive the power amplifier to full output.

PROJECT DESCRIPTION

The exciter circuitry will be investigated to find methods of increasing its output in the 18 to 30 megacycle range. Any changes necessary will be kept as simple as possible. An outside consulting firm may be called in on this problem if additional help is needed. When the exciter drive is increased to the proper level, modification kits will be made up to be used in conjunction with Modification Work Order NO. 7 (Revised).

APPROVAL DATE	APPROVED BY	STARTING DATE	COMPLETION DATE
August 1957	AJW/ JJK	August 1957	

REMARKS

Modification Work Order Number 30 (Optional) is complete except for the assignment of a stock number to the modification kit.

[redacted]
(When Filled In)

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY	BUDGET EST. AMOUNT	REPORTING PERIOD
OC-E			1 - 30 April 1959

ACTION

FUTURE		ACTIVE	X	COMPLETED		CANCELLED		SUSPENDED	

PROJECT NUMBER	PRIORITY CLASS	PRIM. RESPONSIBILITY	PROJECT ENGINEER
E-5117	I	SDS	[redacted]

25X

PROJECT TITLE

25X1A6a

Engineering Design of [redacted] Stations and Determination of Their Space Requirements [redacted]

5X1C4a

25X1A6a

PROJECT REQUIREMENT

To design new radio stations for [redacted] and to determine the power, space, and constructional requirements necessary for the installation of communications facilities in [redacted]

5X1C4a

PROJECT DESCRIPTION

25X1C4a

This project is for the purpose of supplying the [redacted] with Communications requirements in [redacted] constructed in the Americas Area and the engineering of new radio stations to be installed [redacted] elsewhere in [redacted]

25X1C4a

25X1

25X1

25X1A6a

APPROVAL DATE	APPROVED BY	STARTING DATE	COMPLETION DATE
December 1958	GBG /s/ JJK /s/	December 1958	

REMARKS

The standard position was viewed by OC-AD personnel and minor changes were suggested.

5X1A6a **PHASE A:** [redacted] - No action on this station.

5X1A6a **PHASE B:** [redacted] - Inactive pending installation.

25X1A6a **PHASE C:** [redacted] - Teletype wiring diagrams were dispatched to this station during this reporting period.

5X1A6a **PHASE D:** [redacted] - Transmitters and antenna equipment for the new installation are being procured by MSB.

5X1A6a **PHASE E:** [redacted] - Transmitters and antenna equipment for the new station are being procured by MSB.

5X1A6a **PHASE F:** [redacted] - Drawings showing air conditioning and door locations have been prepared for [redacted]

25X

25X1A6a **PHASE G:** [redacted] - The Project Engineer is leaving on TDY to complete the station installation.

FORM 10-58 1543

(20-42)

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY. AMOUNT	REPORTING PERIOD
OC-E		1- 30 April 1959

☐ FUTURE ☒ ACTIVE ☐ COMPLETED ☐ CANCELLED ☐ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RSPN.	
E-5120	I	EES	[redacted]

25X1

PROJECT TITLE
Review of Present Converter field and Evaluation of Diversity Reception Systems

PROJECT REQUIREMENT
Review what is currently on the market to determine if there is an economically suitable replacement for the Northern 107 Model 2 Frequency Shift Converter. To determine the advantages or disadvantages of space/frequency diversity reception systems for possible Agency application.

PROJECT DESCRIPTION
Prepare a comparison chart of all Frequency Shift Conterters currently being produced, such as the Westrex 50-B, TMC CFA, Hoffman CV-116, Northern 107 and 174, etc., to determine which is the most suitable unit to meet our requirements. To evaluate each converter in a diversity system.

APPROVAL DATE	APPROVED	STARTING DATE	COMPLETION DATE
January 1958	/AW/ /JJK/	February 1958	

The contractor has completed testing of all converters with the exception of the [redacted] Model 50-B. Since the delay in delivery of the 50-B has been encountered, the contractor is proceeding with the reduction of accumulated data toward a final report.

5X1A5a1

Latest information indicates that the [redacted] 50-B converter with its associated line keyer will be delivered on 15 May 1959.

25X1

[redacted]
(When Filled In)

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY	BUDGET EST. AMOUNT	REPORTING PERIOD
D/CO			1-30 April 1959

ACTION

FUTURE	ACTIVE	COMPLETED	CANCELLED	SUSPENDED
	X			

PROJECT NUMBER	PRIORITY CLASS	PRIM. RESPONSIBILITY	PROJECT ENGINEER
E-5121	I	EES	[redacted]

25X1

PROJECT TITLE

KY-1 Voice Operated Relay

PROJECT REQUIREMENT

Investigate the feasibility of installing a voice operated relay in the KY-1.

PROJECT DESCRIPTION

25X1A6a

A voice operated relay will be fabricated at the R + D Lab and will be given an evaluation on a KY-1 link between the office of the D/CO and [redacted] NSA will be queried to find what work they have done along this line.

APPROVAL DATE	APPROVED BY	STARTING DATE	COMPLETION DATE
January 1959	GBG [redacted] JJK	January 1959	

25X1A9a

REMARKS

No reply has been received from the NSA engineers regarding what, if anything can be done to shorten the time delay experienced between the time the push-to-talk button is depressed and the time the KY-1 is ready to pass intelligence. A memorandum will be forwarded to NSA in an effort to expedite their investigation.

Further progress on this project is dependent upon a favorable reply from NSA.

MONTHLY PROJECT REPORT

1-30 April 1959

X

9-9123 I SEC: [redacted] 25X

Antenna Systems for [redacted]. 25X1C4a

25X1C4a [redacted] To provide an antenna system, with the receiving antenna(s) being capable of joint use by other offices, for communications nets installed in [redacted]. The antenna installation should perform efficiently and yet not detract from the esthetic appearance of the building.

To investigate and test various types of multicouplers, vertical antennas with associated tuning networks, both remotely operated and passive, and to determine the type multicoupler and antennas best suited to meet the applicable requirements.

		STARTING DATE	COMPLETION DATE
April 1958	/GBG/ _____ /JJK/ _____	April 1958	

25X1A5a1

Delivery of the [redacted] antenna couplers has been delayed. Further activity on this project will be delayed pending receipt of the [redacted]

25X1A5a1

1543

SECRET

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY. AMOUNT	REPORTING PERIOD
OC-SP/EA		1 - 30 April 1959

☐ FUTURE ☒ ACTIVE ☐ COMPLETED ☐ CANCELLED ☐ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RSPN.	PROJECT ENGINEER
E-5126	I	SDS	[redacted]

PROJECT TITLE

[redacted] - SPD Monitoring Station in [redacted]

PROJECT REQUIREMENT

To provide engineering support for Project [redacted]

PROJECT DESCRIPTION

Support required will consist of detailed systems engineering design for various communications facilities as requested by the cognizant divisions and the preparation of cost estimates, bills of materials and all necessary installation drawings.

APPROVAL DATE	APPROVED	STARTING DATE	COMPLETION DATE
April 1958	[redacted]	April 1958	

Critical generator parts required by [redacted] were hand carried by an electronics technician who departed during this period on a TDY assignment to [redacted]

25X1A6b

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY. 59 AMOUNT 20,000	REPORTING PERIOD
OC-E		1-30 April 1959

☐ FUTURE ☒ ACTIVE ☐ COMPLETED ☐ CANCELLED ☐ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RSPN.	PROJECT ENGINEER
E-5131	I	EES	[redacted]

PROJECT TITLE

Modification of RS-1

PROJECT REQUIREMENT

Complaints were received from the field concerning failures of the power cables, crystal sockets, and waterproofing of the RS-1, reference [redacted] 57-1042, reference [redacted] 57-1738,

PROJECT DESCRIPTION

The newly designed power cable will be life tested to assure that it will sustain the operational stresses. A new crystal socket, which has been previously life tested, will be installed. A new pliobond seal will be used to increase the effectiveness of the waterproofing. An RS-1 will be removed from stock and the new parts and seal will be used to modify it. This project will culminate in the issue of a modification work order to all concerned areas.

APPROVAL DATE	APPROVED	STARTING DATE	COMPLETION DATE
July 1958	[redacted]	July 1958	

Fabrication of the crystal sockets has caused another delay. A tentative date of 6 May has been set to begin the modification work.

(When Filled In)

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY	BUDGET EST. AMOUNT	REPORTING PERIOD
OC-E			1 - 30 April 1959

ACTION

FUTURE	ACTIVE	COMPLETED	CANCELLED	SUSPENDED
	X			

PROJECT NUMBER	PRIORITY CLASS	PRIM. RESPONSIBILITY	PROJECT ENGINEER
E-5132	I	SDS	[redacted]

25X1A

PROJECT TITLE

Operating Positions for New Agent Transmission Systems

PROJECT REQUIREMENT

Incorporate necessary components into base station operating positions.

PROJECT DESCRIPTION

Design base station operating positions that will include equipment that will be needed to receive and translate high speed and/or other new forms of agent communication signals.

APPROVAL DATE	APPROVED	STARTING DATE	COMPLETION DATE
February 1959	GBG JJK [redacted]	February 1959	

25X1A9

REMARKS

25X1A2d1 The AS-3 receiving position will require modification to make it compatible with [redacted] agent transmissions.

A study is being made to determine the feasibility of modifying the AS-3 receiving equipment for receiving F-1 as well as A-1 modes of transmission.

FORM 10-58 1543

SECRET

(20-42)

SECRET
(When Filled In)

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY	BUDGET EST. AMOUNT	REPORTING PERIOD
OC-C+T 58-766			1-30 April 1959

ACTION: FUTURE | x ACTIVE | COMPLETED | CANCELLED | SUPERSEDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RESPONSIBILITY	PROJECT ENGINEER
E-5135	I	EES	[redacted]

25

PROJECT TITLE

Modernization of CP-4 Control Panel

PROJECT REQUIREMENT

Redesign the CP-4 Control Panel and fabricate 100 units.

PROJECT DESCRIPTION

Redesign the CP-4 control panel as a more efficient unit and rebuild from the start, using miniaturization techniques wherever possible and practical, incorporating features in the equipment from experience gained from previous models of the control panel.

APPROVAL DATE	APPROVED BY	STARTING DATE	COMPLETION DATE
July 1958	/s/ GEC /s/ [illegible]	July 1958	

REMARKS

A bid was received from a manufacturer for the fabrication of five CP-5 Control Panels. The price quoted is $308 is per unit for the prototypes. It has been requested that the same manufacturer quote a price for the fabrication of 50 to 100 units. They have agreed to supply this information.

The requirement for an R.F. monitor oscillator has been cancelled. Instead, a transistorized side tone oscillator will be designed and fabricated in a vector plug in unit. This unit will plug into the octal socket provided in the CP-5 chassis. The necessary controls will be brought out to the CP-5 front panel.

FORM [illegible] 1543

SECRET
(When Filled In)

MONTHLY PROJECT REPORT

ORIGINATOR	BUDGET EST. FY	BUDGET EST. AMOUNT	REPORTING PERIOD
OC-S			1-30 April 1959

REPORT	ACTION: X ACTIVE	COMPLETED	CANCELLED	SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RESPONSIBILITY	PROJECT ENGINEER
E-5136	I	EES	[redacted]

25X

PROJECT TITLE

Maximum Cryptographic Part Alarm (MACPAL)

PROJECT REQUIREMENT

Provide an alarm for the TSEC/KL-7 which will notify the operator when a pre-determined number of groups have been typed.

PROPOSED APPROACH

The MACPAL should be an incandescent lamp which will light at 90 groups or 335 groups and which will continue to burn until the counter is re-set.

REVISED DATE	APPROVED BY	STARTING DATE	COMPLETION DATE
July 1958	/GBG/ /JJK/	July 1958	

STATUS

The contract for the fabrication of five AL-1 units was awarded. The successful bidder has been provided all necessary specifications, design information, and drawings. One KL-7 unit has been delivered to facilitate the design of the microswitch mounting bracket and for final testing of the AL-1.

The manufacturer estimates 90 days for delivery of the five units.

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY. AMOUNT	REPORTING PERIOD
OC-E		1 - 30 April 1959

☐ FUTURE ☑ ACTIVE ☐ COMPLETED ☐ CANCELLED ☐ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RSPN.	PROJECT ENGINEER
E-5137	I	EES	[redacted]

25X1

PROJECT TITLE

Coaxial Output Network for the 231-D Transmitter

PROJECT REQUIREMENT

A coaxial output network, independent of the existing unbalanced output is required for the 231-D Transmitter.

PROJECT DESCRIPTION

The output circuit of the 231-D Transmitter will be investigated and a suitable network, with provisions for metering, will be designed and fabricated to accommodate coaxial fittings. The existing outputs (i.e., unbalanced and balanced 600 ohm line feed) of this transmitter will not be affected. A modification kit with instructions will be drawn up.

APPROVAL DATE	APPROVED	STARTING DATE	COMPLETION DATE
8 July 1958	[redacted]	July 1958	

25X1

Requests for bids for the fabrication of KM-4s are being distributed by Logistics. The requests are asking for 30 day delivery on the first unit and 60 days delivery for the balance after acceptance of the first unit.

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY, AMOUNT	REPORTING PERIOD
CSD 8-517		1-30 April 1959

☐ FUTURE ☒ ACTIVE ☐ COMPLETED ☐ CANCELLED ☐ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RSPN.	[redacted]
E-5138	I	EES	

25X1A

PROJECT TITLE

Teletype Clear Text Alarm

PROJECT REQUIREMENT A device is required which will detect the clear text word "CITE" when transmitted to a signal line. Upon detecting this word the device will provide a disabling circuit for the transmitter-distributor and an audible and/or visual alarm shall be given.

PROJECT DESCRIPTION

All signal lines are monitored by model-14 reperforators. Contact assemblies are available that are operated by the pull bars on the M-14. These contacts can be added so that they are operated by the space, C, I, T, and E pull bars. These contacts can be used to control the Clear Text Alarm device. The Clear Text Alarm device will be either relay or diode operated and contain its own power supply.

APPROVAL DATE	APPROVED	STARTING DATE	COMPLETION DATE
August 1958	[redacted]	August 1958	

25X1A

Two SSZ-5 electronic line monitors were received and evaluated. The unit is designed to give an alarm with either Four Mark-space characters or eight monoalphabetic characters in sequence depending upon the mode of operation selected. The unit is designed for 60 W.P.M. operation and requires modification for 100 W.P.M. operation. The SSZ-5 does not completely satisfy our requirement for a teletype clear text alarm.

1A5a1 [redacted] is providing a type LS Sequential Line selector on a loan basis for test and evaluation. This unit will operate at either 60 or 100 W.P.M. can be preset for any desired sequence of characters. Time required for delivery is approximately two weeks.

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY, AMOUNT	REPORTING PERIOD
		1-30 April 1959

☐ FUTURE ☒ ACTIVE ☐ COMPLETED ☐ CANCELLED ☐ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RSPN.	[redacted]
E-5139			

25X1

PROJECT TITLE
Investigation of Possibility of Increasing the Speed of Teletype Staff Communications

PROJECT REQUIREMENT

To determine the maximum reliable transmission speed of Agency teletype staff circuits. when using conventional FSK techniques.

PROJECT DESCRIPTION

Engineer a high speed radio teletype communication system and evaluate the operation of this system at speeds up to 300 wpm over an ionospheric path. Conventional FSK techniques are to be employed except that the shift may be optimized for the speed actually transmitted. All equipments employed are to be commercially available items, however, modifications to the equipments are permitted. If possible, terminal equipments are to be selected which will operate at speeds in excess of 300 wpm. The system should be compatible with existing facilities to the extent that no major changes in radio transmitting and receiving equipment will be required.

APPROVAL DATE	APPROVED	STARTING DATE	COMPLETION DATE
December 1958	[redacted]		

25X

During this reporting period, plans have been formulated for a field trip to determine the maximum reliable transmission speed of teletype circuits when using conventional FSK techniques.

Tentative plans are, during May, 1959, tests will be conducted between a transmitting site located at [redacted] and a mobile receiving facility located in the vicinity of Vincennes, Indiana, a path length of approximately 500 miles. Conventional frequency shift keying will be utilized, and a Teletype Corporation High Speed Tape System, modified for operation at speeds of 300,240, and 180 words per minute, will be used as terminal equipment.

25X1A6b

The receiving van of a partially "stripped" 6ST has been drawn from stock, and is being outfitted with appropriate test and experimental equipment to serve as the receiver site. Personnel of IMB and SEB are cooperating in the effort to make the unit, including its tractor, ready for the trip.

Preliminary tests of a modification to the electronic circuitry of the High Speed Tape System to reduce its operating speed from the rated 600 WPM to our testing speeds have indicated no problem in this respect. Changes in the motor-to-drive shift gear ratio of the tape reader will enable the insertion of data at the proper rates.

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY, AMOUNT	REPORTING PERIOD
OC-E		1-30 April 1959

☐ FUTURE ■ ACTIVE ☐ COMPLETED ☐ CANCELLED ☐ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RSPN.	PROJECT ENGINEER
E-5140	I	EES	[redacted]

25X1

PROJECT TITLE

231-D Pre-Emphasis and Speech Clipping Modification

PROJECT REQUIREMENT

To increase the average percentage of modulation of the 231-D transmitter by providing pre-emphasis and speech clipping circuits which will yield a waveform with a higher average power to peak amplitude ratio.

PROJECT DESCRIPTION

25X1A5a1 Pre-emphasis and speech clipping equipment (1 ea.) will be obtained from the [redacted] respectively. One 231-D low power audio stage modification kit will be obtained from [redacted] 25X1A

25X1A6a The entire assembly will then be installed and tested on a 231-D transmitter at [redacted]

If test results are favorable, additional assemblies will be purchased and sent to the field wherever deemed necessary.

APPROVAL DATE	APPROVE[redacted]	STARTING DATE	COMPLETION DATE
AUGUST 1958		AUGUST 1958	25X1A

The contractor has completed design of an amplifier and all necessary modification work on the 231-D to accept the clipper waveform. Delivery

25X1A5a1 of the [redacted] Modulation monitor has been made and evaluation of the transmitter modification has begun. The speech clipper has proven generally satisfactory, although the need for a few minor changes has been discovered during recent tests. These changes will be incorporated into the speech clipper.

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY. AMOUNT	REPORTING PERIOD
OC-O&T 58-807		1-30 April 1959

☐ FUTURE ☒ ACTIVE ☐ COMPLETED ☐ CANCELLED ☐ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RSPN.	
E-5141	I	EES	[redacted] R

25X1A9

PROJECT TITLE

Device to Produce MIMIC Capabilities

PROJECT REQUIREMENT

Provide 15 MIMIC Units capable of determining when there is modulation present on the received signal and reproduce this modulation for rebroadcast. It should also be able to determine if the unmodulated carrier is present, which should control the carrier of the MIMIC transmitter.

PROJECT DESCRIPTION

Design and construct a prototype MIMIC Unit and make up manufacturing specifications and drawings. Test and evaluate prototype unit and obtain approval for the manufacture of production units. Distribute specifications and drawings for bids for a quantity of production units to fill OC requirements.

25X1A9a

APPROVAL DATE	APPROVED	STARTING DATE	COMPLETION DATE
AUGUST 1958	[redacted]	AUGUST 1958	

The manufacturer who was given the contract to build the CU-9s has started work on construction of the units.

Delivery of completed units expected in approximately six weeks.

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY. AMOUNT	REPORTING PERIOD
		1-30 April 1959

☐ FUTURE ☒ ACTIVE ☐ COMPLETED ☐ CANCELLED ☐ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RSPN.	PROJECT ENGINEER
E-5144	I	KRS	[redacted]

25X

PROJECT TITLE

OC-SP Dual Electronic Power Supply

PROJECT REQUIREMENT

To fill a requirement for SP for a 400 cycle 600 volt-amp. and 28 VDC 10 amp. dual electronic power supply.

PROJECT DESCRIPTION

To prepare specifications which willifulfill SP's requirements for 10 each portable dual electronic power supplies. To examine the proposals received to determine which is best suited, taking into consideration weight, size, efficiency, delivery time, and method of operation. To monitor the fabrication of the production units. To conduct tests on the pre-production model to insure that it meets all specifications.

APPROVAL DATE	APPROVED [redacted]	STARTING DATE	COMPLETION DATE

25X1A9a

Work continues at a satisfactory rate on the dual electronic power supply. Full load and over load tests of the engineering model have been conducted with excellent results, indicating that an effective circuit design has been realised. Fabrication of the prototype will begin as soon as the contractor completes all necessary tests required to determine compliance with all specifications.

SECRET
(When Filled In)

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY	BUDGET EST. AMOUNT	REPORTING PERIOD
OC-E			1 - 30 April 1959

ACTION

FUTURE	ACTIVE	COMPLETED	CANCELLED	SUSPENDED
	X			

PROJECT NUMBER	PRIORITY CLASS	PRIM. RESPONSIBILITY	PROJECT ENGINEER
E-5172	I	SDS	[redacted]

25X1

PROJECT TITLE

AS-6 Base Station Systems Design

PROJECT REQUIREMENT

To design the base station antenna system and AS-6 equipment installation.

PROJECT DESCRIPTION

The project will include the antenna design, equipment layout, installation drawings and preparation of a bill of materials to incorporate the AS-6 system into existing base stations.

APPROVAL DATE	APPROVED BY	STARTING DATE	COMPLETION DATE
February 1959	JJK GBC [redacted]	February 1959	

25X1

REMARKS

It has been decided that the Base Station location for the AS-6 will be [redacted]

25X1A6b

Installation plans are being drafted which will be forwarded to Chief, [redacted] for review and comment.

25X1A6a

Satisfactory tests between Los Angeles and the field unit located at [redacted] were conducted during the last week in April.

Tests between [redacted] are scheduled to be conducted during the period 16 - 23 May.

FORM 10-58 1543

SECRET

(When Filled In)

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY	BUDGET EST. AMOUNT	REPORTING PERIOD
OC-E			1-30 April 1959

ACTION: FUTURE | X ACTIVE | COMPLETED | CANCELLED | SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RESPONSIBILITY	PROJECT ENGINEER
E-5173	I	EES	[redacted] 25X

PROJECT TITLE

Voice Frequency Carrier Telegraph Systems

PROJECT REQUIREMENT

25X1A5a1 To improve the operation of our present voice frequency carrier (VFC) telegraph system [redacted] investigate the feasibility of modifying this equipment to provide 100 wpm operation and select a new "standard"100 wpm VFC equipment.

PROJECT DESCRIPTION

Improve reliability of present Microwave and VHF MUX systems, particularly in respect to VFC channel frequency stability, for 60 wpm operation.

Investigate the possibility of adapting, by modification or substitution of components, present VFC equipment for 100 wpm teletype operation. Investigate commercial developments in the field of VFC telegraph systems to provide 12 or more 100 wpm teletype channels in a single voice frequency spectrum of 400 to 3,000 cps.

Make appropriate recommendations to OC based on results of above investigations.

APPROVAL DATE	APPROVED BY	STARTING DATE	COMPLETION DATE
5X1A9a	[redacted]		

REMARKS

An investigation has been made of the commercial developments in the field of VFC telegraph systems.

Transistorized telegraph systems are being manufactured by Northern Radio, Lenkurt, and Tele-Signal. While all three systems are considered high quality, the Tele-Signal equipment has several features not found in the Northern or Lenkurt equipment. Some of these features are 1) self-contained power supply in each unit, 2) speeds up to 2500 WPM, 3) plug-in frequency determining network, 4) all adjustments on front panel and 5) proven reliability. The price of a twelve channel simplex system is approximately $5000. This is considerably less than competitive systems.

Four channels of Tele-Signal equipment have been requisitioned 25X1A6b/ This equipment will be evaluated by EES and later shipped to [redacted]

Estimates have been received from [redacted]. for modification kits to 25X1A
25X1A5a1 increase the operating speeds to 100 WPM and to increase reliability of our presently installed [redacted] Multiplex equipment.

FORM 1543 SECRET (20-42)

MONTHLY PROJECT REPORT

PROJECT NUMBER	PRIM. RSPN.	REPORTING PERIOD
E-5173	EES	1-30 April 1959

CONTINUED

These Estimates were for:

100	Channels	$413 each
200	Channels	$348 each
400	Channels	$316 each
600	Channels	$298 each
1000	Channels	$284 each

These prices seem excessively high in comparison to new equipment designed to operate at 100 WPM.

Upon receipt of test equipment now on order preliminary examinations will be made to determine if operation of present equipment can be improved at a lower cost per channel.

(When Filled In)

MONTHLY PROJECT REPORT

ORGANIZATION(S)	BUDGET EST. FY	BUDGET EST. AMOUNT	REPORTING PERIOD
OC-E	1959		1 - 30 April 1959

ACTION

CHANGE	X	ACTIVE	COMPLETED	CANCELLED	SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RESPONSIBILITY	
E-5174	II	FES	[redacted] 25X

PROJECT TITLE

General Engineering Support to all Communications Areas.

PROJECT REQUIREMENT

Same as Above

PROJECT DESCRIPTION

Provide engineering representation and liaison with [redacted] 25X1 and Agency elements for new construction and relocation of communications facilities not covered under other projects.

Support is also to be given to the Area in providing general engineering information and resolving individual technical problems as required.

25X1A2d2

Records are to be maintained for Area Base and Field Stations reports and drawings [redacted].

TERMINAL DATE		STARTING DATE	COMPLETION DATE
March 1959	[redacted]	March 1959	

REMARKS

MECA

[redacted] 25X1A6a

1. **A discussion was held between personnel of OC-E/SEB/FES and OL-RE&CD relative to new construction, air-conditioning, water, sewerage and power requirements at [redacted]. [redacted] (RE&CD) will go to [redacted] for six weeks to supervise these improvements.** 25X1A6b 25X1A6a

2. **Details of a Logarithmic Periodic antenna to receive between 30 and 180 mcs, designed and constructed by [redacted] were sent to Chief, [redacted] Permission for installation at [redacted] for use by [redacted] was requested.** 25X1A5a1 25X1A

3. **Assistance was given in regard to tentative plans for the installation of KW-26 equipment at the [redacted] receiving station.** 25X1A

[redacted] 25X1A6a 25X1C4a

New [redacted] space requirements were coordinated with OC-MD. Preliminary specifications and a drawing was submitted to the 25X1C4a [redacted] **for inclusion with their requirements on [redacted] building plans. Chief, [redacted] and OL-RE&CD will be advised of these plans.** 25X1A6b 25X1A2 25X1C

FORM 10-58 1543 (20-42)

MONTHLY PROJECT REPORT

PROJECT NUMBER	PRIM. RSPN.	REPORTING PERIOD
E-5174	FES	1 - 30 April 1959

CONFIDENTIAL 25X1A6b

[redacted]

25X1A6a [redacted]

1. A request was sent to OL-RE&CD for selection of equipment to meet dehumidification requirements of the warehouse in the proposed 25X1A6a [redacted] Headquarters building. Engineering will procure and ship the specified equipment for installation by the contractor. A memorandum to the file was prepared.

2. At a meeting held with [redacted] 25X1
Communications Officer it was learned that construction of the 25X1A6a [redacted] building will not be started by 31 May as anticipated in the field. Architechural drawings still require completion and 25X1C4a [redacted] approval before contractual services can be solicited.

25X1A6a [redacted] A 30 kw diesel-generator was requisitioned and notification of delivery to the field in July was sent. Installation 25X1A6b drawings were also forwarded.

[redacted]

25X1A6b Preliminary details on the La Port tandem rhombic antenna were sent as requested.

25X1A2d2

25X1A6b [redacted] Twelve corrected [redacted] drawings were sent for inclusion with [redacted] records.

25X1A2d2

[redacted] Semi-annual Engineering reporting forms were sent to all areas.

(When Filled In)

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY	BUDGET EST. AMOUNT	REPORTING PERIOD
OC-P			1 - 30 April 1959

ACTION

FIGURE	X ACTIVE	COMPLETED	CANCELLED	SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RESPONSIBILITY	PROJECT ENGINEER
E-5175	I	SDS	[redacted]

PROJECT TITLE

25X1A6a [redacted] Radio Station

PROJECT REQUIREMENT

25X1A6a To formulate plans for the installation of a Radio Station at [redacted] for use as a backup or in the event [redacted] became inoperable. 25X1A6b

PROJECT DESCRIPTION

Determine the magnitude of the station required; select suitable locations with sufficient land to accommodate a receiver and transmitter site; survey, clear, and grade sites as required; design and locate antennas, buildings, and necessary shelters; locate accessible water, power, and sewer mains; and prepare bill of materials. Actual phases of construction and operation will take place when required.

APPROVAL DATE	APPROVED BY	STARTING DATE	COMPLETION DATE
May 1959	JFS GBG [redacted]	May 1959	

25X1

REMARKS

Preliminary discussions have been held recently regarding the requirements for this project. This project will be in the active status during the next reporting period.

FORM 15-58 1543

(20-42)

[redacted]
(When Filled In)

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY	BUDGET EST. AMOUNT	REPORTING PERIOD
OC 8095			1 - 30 April 1959

ACTION

FUTURE	X ACTIVE	COMPLETED	CANCELLED	SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RESPONSIBILITY	PROJECT ENGINEER
E-5197	I	SDS	[redacted]

25X1A

PROJECT TITLE

Portable Emergency Broadcast Station

PROJECT REQUIREMENT

To provide packages medium and shortwave 1 kilowatt broadcast stations for field use.

PROJECT DESCRIPTION

1. Find a suitable 1 KW broadcast transmitter for the 535/1605 KC band.

2. Find a suitable 1 KW broadcast transmitter for the 2-26.1 MC band.

3. Find antennas useable in the 550/1600 KC band and supporting towers for dipoles in the 2-30 MC band.

4. Determine materials and accessories necessary for installation and operation of a complete broadcast station. and requisition these items.

5. Install and field test the stations near Washington, D. C.

APPROVAL DATE	APPROVED BY	STARTING DATE	COMPLETION DATE
January 1959	[redacted]	January 1959	

X1A9a

REMARKS

Bids were received on the transmitters and antenna coupler from [redacted] and [redacted] was selected as meeting all specifications. Their bids were:

25X1A5

X1A5a1

Antenna Coupler	$ 1,070
Medium Wave Broadcast Transmitter	$ 4,735
Short Wave Broadcast Transmitter	$ 6,361
Variable Frequency Oscillator	$ 1,047

A rough estimate on cost of a portable Butler building with flooring and a wood foundation is $1,500.

A complete portable station including transmitter, building, generator, and other equipment would cost approximately $25,000.

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY. AMOUNT	REPORTING PERIOD
[redacted] OC-O&T		1 - 30 April 1959

☐ FUTURE ☒ ACTIVE ☐ COMPLETED ☐ CANCELLED ☐ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RSPN.	PROJECT ENGINEER
E-5386		SDS	[redacted]

PROJECT TITLE

[redacted] Base Station Relocation

PROJECT REQUIREMENT

Design a new transmitter and receiver facility because the present transmitting and receiving facilities are housed in a Quonset Hut and [redacted] respectively, and are inadequate for present circuit requirements. The transmitting station must move in the near future to permit [redacted]

PROJECT DESCRIPTION

Future planning calls for the design of a Base Station to be constructed on [redacted] outside of the [redacted] area. [redacted] We will act as the coordinating element between the field, Agency elements, and [redacted] elements.

APPROVAL DATE	APPROVED	STARTING DATE	COMPLETION DATE
September 1956	WAB /s/ JJK /s/	September 1956	

Installation drawings for both the receiver and transmitter buildings have been completed. Installation schedule and equipment status reports have also been completed. Copies of the above drawings and reports are being made for transmittal to [redacted] expect to enter the 11 May [redacted] school and depart for [redacted] around the 25th of May. [redacted] will follow in approximately 3 months.

No construction progress reports have been received, via the KUBARK Resident Engineer, since March; however, it is assumed that installation of equipment and material may proceed in June 1959. Completion date for the communications buildings is 30 June 1959, however, [redacted] may occupy the buildings on a "beneficial occupancy" basis, prior to that date, without jeopardizing our right to reject poor workmanship or correction of building defects.

CONFIDENTIAL

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY. AMOUNT	REPORTING PERIOD
OC-O+T		1 - 30 April 1959

☐ FUTURE ☒ ACTIVE ☐ COMPLETED ☐ CANCELLED ☐ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RSPN.	PRO[redacted]
E-5412	I	SDS	

25X1A

PROJECT TITLE

One Man Radio Station

PROJECT REQUIREMENT

Design a complete one man radio station to be used as a standard for the planning of all new one man stations or when renovating existing stations.

PROJECT DESCRIPTION

This project was originally started in September 1956 to prepare a bill of materials and associated drawings to cover the installation of a one man radio station in [redacted] It has been expanded to cover the installation and renovation of all one man stations. Using the one man station design as a guide, a complete bill of materials, associated drawings and installation specifications will be prepared according to the requirements of each particular station.

25X1A6a

APPROVAL DATE	APPROVED	STARTING DATE	COMPLETION DATE
September 1956	AJW /s/ JJK /s/	September 1956	

During this reporting period the station was presented to various interested members of OC Staffs. Both favorable comments and constructure criticism was received. From these comments and suggestions certain changes in the position were generated. These consist chiefly of equipment location and represent no major changes in the basic position.

The specifications for the position are being written and will be completed in the near future. [redacted] the contractor for the prototype, is presently engaged in producing the drawings and should be finished by approximately 6 May.

25X1A5a

It is planned to ship the prototype to [redacted] for installation at the new [redacted] during June 1959.

25X1A6a

25X1C4a